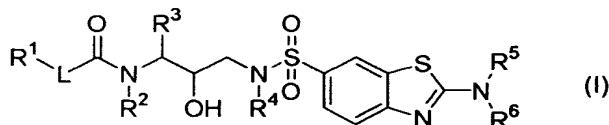


Listing of Claims:

This listing of claims replaces all prior versions, and listings, of claims in the captioned application.

1. (Currently Amended) A method of inhibiting mutant HIV protease in a mammal infected with said mutant HIV protease, said method comprising the step of administering to said mammal a therapeutically effective amount of a compound - The use of a 2-amino-benzothiazole, having the formula



a N-oxide, salt, stereoisomeric form, racemic mixture, prodrug, ester or metabolite thereof, wherein

R₁ is hexahydrofuro[2,3-b]furanyl, tetrahydrofuranyl, oxazolyl, thiazolyl, pyridinyl, or phenyl optionally substituted with one or more substituents independently selected from C₁₋₆alkyl, hydroxy, amino, halogen, aminoC₁₋₄alkyl and mono- or di(C₁₋₄alkyl)amino;

R₂ is hydrogen or C₁₋₆alkyl;

L is a direct bond, -O-, C₁₋₆alkanediyl-O- or -O-C₁₋₆alkanediyl;

R₃ is phenylC₁₋₄alkyl;

R₄ is C₁₋₆alkyl;

R₅ is hydrogen or C₁₋₆alkyl;

R₆ is hydrogen or C₁₋₆alkyl;

in the manufacture of a medicament useful for inhibiting mutant HIV protease in a mammal infected with said mutant HIV protease.

2. (Currently Amended) The use-method according to claim 1 wherein

R² is hydrogen;

R³ is phenylmethyl;

R⁴ is C₁₋₄alkyl, preferably isobutyl;

R⁵ is hydrogen or methyl;

R^6 is hydrogen or methyl.

3. (Currently Amended) The method use according to claim 1 or 2 wherein R^5 is methyl or hydrogen and R^6 is hydrogen
4. (Currently Amended) The method use according to claim 1 any one of claims 1 to 3 wherein both R^5 and R^6 are hydrogen.
5. (Currently Amended) The method use according to claim 1 any one of claims 1 to 4 wherein $-L-R^1$ is $-O$ -(hexahydrofuro[2,3-b]furanyl), $-O$ -tetrahydrofuranyl, $-O$ -methyl-(optionally substituted phenyl), $-O$ -methyl-pyridinyl, $-O$ -methyl-thiazolyl, $-O$ -methyl-thiazolyl, $-O$ -(optionally substituted phenyl) or optionally substituted phenyl.
6. (Currently Amended) A method of inhibiting mutant HIV protease in a mammal infected with said mutant HIV protease, said method comprising the step of administering to said mammal a therapeutically effective amount of a compound selected from the group consisting of: use according to any one of claims 1 to 5 wherein the compound is

{3-[(2-amino-benzothiazole-6-sulfonyl)-isobutyl-amino]-1-benzyl-2-hydroxypropyl}-carbamic acid hexahydro-furo[2,3-b]furan-3-yl ester;

{3-[(2-amino-benzothiazole-6-sulfonyl)-isobutyl-amino]-1-benzyl-2-hydroxypropyl}-carbamic acid thiazol-5-ylmethyl ester;

{1-benzyl-2-hydroxy-3-[isobutyl-(2-methylamino-benzothiazole-6-sulfonyl)-amino]-propyl}-carbamic acid hexahydro-furo[2,3-b]furan-3-yl ester;

{1-benzyl-3-[(2-dimethylamino-benzothiazole-6-sulfonyl)-isobutyl-amino]-2-hydroxy-propyl}-carbamic acid hexahydro-furo[2,3-b]furan-3-yl ester;

{3-[(2-amino-benzothiazole-6-sulfonyl)-isobutyl-amino]-1-benzyl-2-hydroxypropyl}-carbamic acid benzyl ester;

N-{3-[(2-amino-benzothiazole-6-sulfonyl)-isobutyl-amino]-1-benzyl-2-hydroxypropyl}-2-(2,6-dimethyl-phenoxy)-acetamide;

{3-[(2-amino-benzothiazole-6-sulfonyl)-isobutyl-amino]-1-benzyl-2-hydroxypropyl}-carbamic acid pyridin-3-ylmethyl ester;

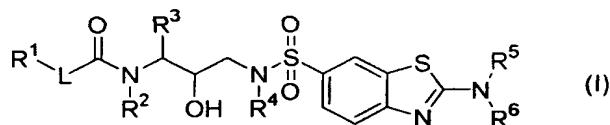
3-amino-N-{3-[(2-amino-benzothiazole-6-sulfonyl)-isobutyl-amino]-1-benzyl-2-hydroxypropyl}-2-methyl-benzamide;
N-{3-[(2-amino-benzothiazole-6-sulfonyl)-isobutyl-amino]-1-benzyl-2-hydroxypropyl}-3-hydroxy-2-methyl-benzamide;
{3-[(2-amino-benzothiazole-6-sulfonyl)-isobutyl-amino]-1-benzyl-2-hydroxypropyl}-carbamic acid tetrahydro-furan-3-yl ester;
N-{3-[(2-amino-benzothiazole-6-sulfonyl)-isobutyl-amino]-1-benzyl-2-hydroxypropyl}-2-methyl-benzamide;
N-{1-benzyl-2-hydroxy-3-[isobutyl-(2-methylamino-benzothiazole-6-sulfonyl)-amino]-propyl}-2-(2,6-dimethyl-phenoxy)-acetamide;
N-{3-[(2-amino-benzothiazole-6-sulfonyl)-isobutyl-amino]-1-benzyl-2-hydroxypropyl}-3-fluoro-2-methyl-benzamide;
N-{3-[(2-amino-benzothiazole-6-sulfonyl)-isobutyl-amino]-1-benzyl-2-hydroxypropyl}-2-(4-aminomethyl-2,6-dimethyl-phenoxy)-acetamide;
{1-benzyl-2-hydroxy-3-[isobutyl-(2-methylamino-benzothiazole-6-sulfonyl)-amino]-propyl}-carbamic acid thiazol-5-ylmethyl ester;
3-amino-N-{1-benzyl-2-hydroxy-3-[isobutyl-(2-methylamino-benzothiazole-6-sulfonyl)-amino]-propyl}-2-methyl-benzamide;
{1-benzyl-2-hydroxy-3-[isobutyl-(2-methylamino-benzothiazole-6-sulfonyl)-amino]-propyl}-carbamic acid tetrahydro-furan-3-yl ester;
N-{1-benzyl-2-hydroxy-3-[isobutyl-(2-methylamino-benzothiazole-6-sulfonyl)-amino]-propyl}-3-hydroxy-2-methyl-benzamide;
N-{3-[(2-amino-benzothiazole-6-sulfonyl)-isobutyl-amino]-1-benzyl-2-hydroxypropyl}-2-(4-iodo-2,6-dimethyl-phenoxy)-acetamide;
2-(4-aminomethyl-2,6-dimethyl-phenoxy)-N-{1-benzyl-2-hydroxy-3-[isobutyl-(2-methylamino-benzothiazole-6-sulfonyl)-amino]-propyl}-acetamide;
2-(4-amino-2,6-dimethyl-phenoxy)-N-{1-benzyl-2-hydroxy-3-[isobutyl-(2-methylamino-benzothiazole-6-sulfonyl)-amino]-propyl}-acetamide;
N-{1-benzyl-2-hydroxy-3-[isobutyl-(2-methylamino-benzothiazole-6-sulfonyl)-amino]-propyl}-4-bromo-2-methyl-benzamide;
{1-benzyl-2-hydroxy-3-[isobutyl-(2-methylamino-benzothiazole-6-sulfonyl)-amino]-propyl}-carbamic acid oxazol-5-ylmethyl ester;

4-amino-N-{1-benzyl-2-hydroxy-3-[isobutyl-(2-methylamino-benzothiazole-6-sulfonyl)-amino]-propyl}-3-hydroxy-2-methyl-benzamide; and
or a salt, or a stereoisomeric form thereof.

7. (Currently Amended) The method use according to claim 1 any one of claims 1 to 6 wherein the mutant HIV protease has at least one mutation at a position selected from 10, 71 and 84.

8. (Currently Amended) The method use according to claim 1 any one of claims 1 to 7 wherein the fold resistance of the mutant HIV protease for the compound described in claim 1 any one of claims 1 to 6 ranges between 0.01 and 100.

9. (Original) A compound having the formula



a *N*-oxide, salt, stereoisomeric form, racemic mixture, prodrug, ester or metabolite thereof, wherein

R₁ is hexahydrofuro[2,3-*b*]furanyl, tetrahydrofuranyl, oxazolyl, thiazolyl, pyridinyl, or phenyl optionally substituted with one or more substituents independently selected from C₁₋₆alkyl, hydroxy, amino, halogen, aminoC₁₋₄alkyl and mono- or di(C₁₋₄alkyl)amino;

R₂ is hydrogen or C₁₋₆alkyl;

L is a direct bond, -O-, C₁₋₆alkanediyl-O- or -O-C₁₋₆alkanediyl;

R₃ is phenylC₁₋₄alkyl;

R₄ is C₁₋₆alkyl;

R₅ is hydrogen or C₁₋₆alkyl;

R₆ is hydrogen or C₁₋₆alkyl;

provided that the compound is other than :

{(1*S*,2*R*)-3-[(2-amino-benzothiazole-6-sulfonyl)-isobutyl-amino]-1-benzyl-2-hydroxypropyl}-carbamic acid benzyl ester;

$\{(1S,2R)\text{-}3\text{-}[(2\text{-}amino\text{-}benzothiazole\text{-}6\text{-}sulfonyl)\text{-}isobutyl\text{-}amino]\text{-}1\text{-}benzyl\text{-}2\text{-}hydroxypropyl}\text{-}carbamic\ acid\ pyridin\text{-}3\text{-}ylmethyl\ ester;$
 $\{(1S,2R)\text{-}3\text{-}[(2\text{-}amino\text{-}benzothiazole\text{-}6\text{-}sulfonyl)\text{-}isobutyl\text{-}amino]\text{-}1\text{-}benzyl\text{-}2\text{-}hydroxypropyl}\text{-}carbamic\ acid\ thiazol\text{-}5\text{-}ylmethyl\ ester;$
 $\{(1S,2R)\text{-}3\text{-}[(2\text{-}amino\text{-}benzothiazole\text{-}6\text{-}sulfonyl)\text{-}isobutyl\text{-}amino]\text{-}1\text{-}benzyl\text{-}2\text{-}hydroxypropyl}\text{-}2\text{-}(2,6\text{-}dimethyl\text{-}phenoxy)\text{-}acetamide;$
3-amino- $\{(1S,2R)\text{-}3\text{-}[(2\text{-}amino\text{-}benzothiazole\text{-}6\text{-}sulfonyl)\text{-}isobutyl\text{-}amino]\text{-}1\text{-}benzyl\text{-}2\text{-}hydroxypropyl}\text{-}2\text{-}methyl\text{-}benzamide;$
4-amino- $\{(1S,2R)\text{-}3\text{-}[(2\text{-}amino\text{-}benzothiazole\text{-}6\text{-}sulfonyl)\text{-}isobutyl\text{-}amino]\text{-}1\text{-}benzyl\text{-}2\text{-}hydroxypropyl}\text{-}2\text{-}methyl\text{-}benzamide;$
5-amino- $\{(1S,2R)\text{-}3\text{-}[(2\text{-}amino\text{-}benzothiazole\text{-}6\text{-}sulfonyl)\text{-}isobutyl\text{-}amino]\text{-}1\text{-}benzyl\text{-}2\text{-}hydroxypropyl}\text{-}2\text{-}methyl\text{-}benzamide;$
N- $\{(1S,2R)\text{-}3\text{-}[(2\text{-}amino\text{-}benzothiazole\text{-}6\text{-}sulfonyl)\text{-}isobutyl\text{-}amino]\text{-}1\text{-}benzyl\text{-}2\text{-}hydroxypropyl}\text{-}2\text{-}methyl\text{-}benzamide;$
N- $\{(1S,2R)\text{-}3\text{-}[(2\text{-}amino\text{-}benzothiazole\text{-}6\text{-}sulfonyl)\text{-}isobutyl\text{-}amino]\text{-}1\text{-}benzyl\text{-}2\text{-}hydroxypropyl}\text{-}4\text{-}hydroxy\text{-}2\text{-}methyl\text{-}benzamide;$
N- $\{(1S,2R)\text{-}3\text{-}[(2\text{-}amino\text{-}benzothiazole\text{-}6\text{-}sulfonyl)\text{-}isobutyl\text{-}amino]\text{-}1\text{-}benzyl\text{-}2\text{-}hydroxypropyl}\text{-}3\text{-}hydroxy\text{-}2\text{-}methyl\text{-}benzamide;$ and
 $\{(1S,2R)\text{-}3\text{-}[(2\text{-}amino\text{-}benzothiazole\text{-}6\text{-}sulfonyl)\text{-}isobutyl\text{-}amino]\text{-}1\text{-}benzyl\text{-}2\text{-}hydroxypropyl}\text{-}carbamic\ acid\ (S)\text{-}(tetrahydrofuran\text{-}3\text{-}yl)\ ester.$

10. (Original) A compound according to claim 9 wherein R_1 is hexahydrofuro[2,3-b]furanyl or oxazolyl.

11. (Original) A compound according to claim 9 wherein R_1 is hexahydrofuro[2,3-b]furanyl, tetrahydrofuranyl, oxazolyl, thiazolyl, and L is a direct bond.

12. (Original) A compound according to claim 9 wherein R_1 is hexahydrofuro[2,3-b]furanyl, oxazolyl, thiazolyl, pyridinyl, or phenyl optionally substituted with one or more substituents independently selected from $C_{1\text{-}6}$ alkyl, hydroxy, amino, halogen, amino $C_{1\text{-}4}$ alkyl and mono- or di($C_{1\text{-}4}$ alkyl)amino; and L is -O-.

13. (Currently Amended) A compound according to claim 9 wherein wherein R₁ is hexahydrofuro[2,3-b]furanyl, tetrahydrofuranyl, oxazolyl, or phenyl substituted with one or more substituents independently selected from C₁₋₆alkyl, hydroxy, amino, halogen, aminoC₁₋₄alkyl and mono- or di(C₁₋₄alkyl)amino; and L is C₁₋₆alkanediyl-O- whereby the -O- is attached to the nitrogen of the amide.

14. (Original) A compound according to claim 9 wherein R₁ is hexahydrofuro[2,3-b]furanyl, tetrahydrofuranyl, oxazolyl, thiazolyl, pyridinyl, or phenyl optionally substituted with one or more substituents independently selected from hydroxy, amino, halogen, aminoC₁₋₄alkyl and mono- or di(C₁₋₄alkyl)amino; and L is -O-C₁₋₆alkanediyl whereby -O- is attached to the R¹ group.

15. (Currently Amended) A compound according to claim 9 ~~any one of claims 9 to 14~~ wherein at least one of R₅ and R₆ is C₁₋₆alkyl.

16. (Currently Amended) A compound according to claim 9 ~~any one of claims 9 to 15~~ wherein R² is hydrogen; R³ is phenylmethyl; R⁴ is C₁₋₄alkyl.

17. (Currently Amended) A compound according to claim 9 ~~any one of claims 9 to 16~~ having the formula

{1-benzyl-2-hydroxy-3-[isobutyl-(2-methylamino-benzothiazole-6-sulfonyl)-amino]-propyl}-carbamic acid hexahydro-furo[2,3-b]furan-3-yl ester;
{1-benzyl-3-[(2-dimethylamino-benzothiazole-6-sulfonyl)-isobutyl-amino]-2-hydroxy-propyl}-carbamic acid hexahydro-furo[2,3-b]furan-3-yl ester;
N-{1-benzyl-2-hydroxy-3-[isobutyl-(2-methylamino-benzothiazole-6-sulfonyl)-amino]-propyl}-2-(2,6-dimethyl-phenoxy)-acetamide;
N-{3-[(2-amino-benzothiazole-6-sulfonyl)-isobutyl-amino]-1-benzyl-2-hydroxypropyl}-3-fluoro-2-methyl-benzamide;
N-{3-[(2-amino-benzothiazole-6-sulfonyl)-isobutyl-amino]-1-benzyl-2-hydroxypropyl}-2-(4-aminomethyl-2,6-dimethyl-phenoxy)-acetamide;
{1-benzyl-2-hydroxy-3-[isobutyl-(2-methylamino-benzothiazole-6-sulfonyl)-amino]-propyl}-carbamic acid thiazol-5-ylmethyl ester;

3-amino-N-{1-benzyl-2-hydroxy-3-[isobutyl-(2-methylamino-benzothiazole-6-sulfonyl)-amino]-propyl}-2-methyl-benzamide;
{1-benzyl-2-hydroxy-3-[isobutyl-(2-methylamino-benzothiazole-6-sulfonyl)-amino]-propyl}-carbamic acid tetrahydro-furan-3-yl ester;
N-{1-benzyl-2-hydroxy-3-[isobutyl-(2-methylamino-benzothiazole-6-sulfonyl)-amino]-propyl}-3-hydroxy-2-methyl-benzamide;
N-{3-[(2-amino-benzothiazole-6-sulfonyl)-isobutyl-amino]-1-benzyl-2-hydroxypropyl}-2-(4-iodo-2,6-dimethyl-phenoxy)-acetamide;
2-(4-aminomethyl-2,6-dimethyl-phenoxy)-N-{1-benzyl-2-hydroxy-3-[isobutyl-(2-methylamino-benzothiazole-6-sulfonyl)-amino]-propyl}-acetamide;
2-(4-amino-2,6-dimethyl-phenoxy)-N-{1-benzyl-2-hydroxy-3-[isobutyl-(2-methylamino-benzothiazole-6-sulfonyl)-amino]-propyl}-acetamide;
N-{1-benzyl-2-hydroxy-3-[isobutyl-(2-methylamino-benzothiazole-6-sulfonyl)-amino]-propyl}-4-bromo-2-methyl-benzamide;
{1-benzyl-2-hydroxy-3-[isobutyl-(2-methylamino-benzothiazole-6-sulfonyl)-amino]-propyl}-carbamic acid oxazol-5-ylmethyl ester;
4-amino-N-{1-benzyl-2-hydroxy-3-[isobutyl-(2-methylamino-benzothiazole-6-sulfonyl)-amino]-propyl}-3-hydroxy-2-methyl-benzamide; or
a salt thereof, or a stereoisomeric form thereof.

18. (Currently Amended) A compound according to claim 9, selected from the group consisting of: or 10 having the formula

{3-[(2-amino-benzothiazole-6-sulfonyl)-isobutyl-amino]-1-benzyl-2-hydroxypropyl}-carbamic acid hexahydro-furo[2,3-b]furan-3-yl ester;
{1-benzyl-2-hydroxy-3-[isobutyl-(2-methylamino-benzothiazole-6-sulfonyl)-amino]-propyl}-carbamic acid hexahydro-furo[2,3-b]furan-3-yl ester;
{1-benzyl-3-[(2-dimethylamino-benzothiazole-6-sulfonyl)-isobutyl-amino]-2-hydroxy-propyl}-carbamic acid hexahydro-furo[2,3-b]furan-3-yl ester;
or a salt or stereoisomeric form thereof.